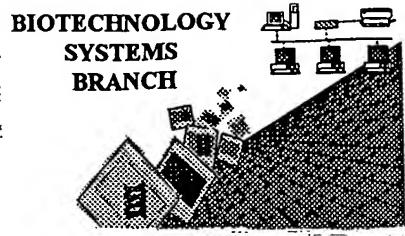


RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/018,383
Source: PU/10
Date Processed by STIC: 6/4/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

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Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

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1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
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Revised 01/29/2002



PCT10

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/018,383

DATE: 06/04/2002
TIME: 14:56:06

Input Set : A:\X11600.ST25.txt
Output Set: N:\CRF3\06042002\J018383.raw

Does Not Comply
Corrected Diskette Needed

PP36

3 <110> APPLICANT: Becker, Gerald
4 Hale, John
5 Heath, William
6 Johnstone, Edward
7 Little, Sheila
8 Tu, Yuan
9 Yeh, Wu-Kuang
10 Yin, Tinggui
12 <120> TITLE OF INVENTION: Amyloid Precursor Protein Protease and Related Nucleic Acid Compounds
14 <130> FILE REFERENCE: X-11600
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/018,383
C--> 16 <141> CURRENT FILING DATE: 2002-03-05
16 <160> NUMBER OF SEQ ID NOS: 5
18 <170> SOFTWARE: PatentIn version 3.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 1683
22 <212> TYPE: DNA
23 <213> ORGANISM: Homo sapiens
25 <220> FEATURE:
26 <221> NAME/KEY: CDS
27 <222> LOCATION: (25)..(1629)
28 <223> OTHER INFORMATION:
31 <220> FEATURE:
32 <221> NAME/KEY: misc_feature
33 <222> LOCATION: (25)..(1629)
34 <223> OTHER INFORMATION: n = any nucleotide A, C, G, or T
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39 Met Leu Arg Arg Arg Gly Ser Pro Gly
40 1 5
42 atg ggt gtg cat gtg ggt gca gcc ctg gga gca ctg tgg ttc tgc ctc 99
43 Met Gly Val His Val Gly Ala Ala Leu Gly Ala Leu Trp Phe Cys Leu
44 10 15 20 25
46 aca gga gcc ctg gag gtc cag gtc cct gaa gac cca gtg gtg gca ctg 147
47 Thr Gly Ala Leu Glu Val Gln Val Pro Glu Asp Pro Val Val Ala Leu
48 30 35 40
50 gtc ggc acc gat gcc acc ctg tgc tgc tcc ttc tcc cct gag cct ggc 195
51 Val Gly Thr Asp Ala Thr Leu Cys Cys Ser Phe Ser Pro Glu Pro Gly
52 45 50 55
54 ttc agc ctg gca cag ctc aac ctc atc tgg cag ctg aca gat acc aaa 243
55 Phe Ser Leu Ala Gln Leu Asn Leu Ile Trp Gln Leu Thr Asp Thr Lys
56 60 65 70
58 cag ctg gtg cac agc ttt gct gag ggc cag gac cag ggc agc gcc tat 291

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/018,383

DATE: 06/04/2002
TIME: 14:56:06

Input Set : A:\X11600.ST25.txt
Output Set: N:\CRF3\06042002\J018383.raw

59	Gln	Leu	Val	His	Ser	Phe	Ala	Glu	Gly	Gln	Asp	Gln	Gly	Ser	Ala	Tyr		
60	75					80				85								
62	gcc	aac	cgc	acg	gcc	ctc	ttc	ccg	gac	ctg	ctg	gca	cag	ggc	aac	gca	339	
63	Ala	Asn	Arg	Thr	Ala	Leu	Phe	Pro	Asp	Leu	Leu	Ala	Gln	Gly	Asn	Ala		
64	90					95				100						105		
66	tcc	ctg	agg	ctg	cag	cgc	gtg	cgt	gtg	gct	gac	gag	ggc	agc	ttc	acc	387	
67	Ser	Leu	Arg	Leu	Gln	Arg	Val	Arg	Val	Ala	Asp	Glu	Gly	Ser	Phe	Thr		
68						110				115						120		
70	tgc	ttc	gtg	agc	atc	cg	gt	gat	ttc	gg	agc	g	cc	gt	agc	ctg	cag	435
71	Cys	Phe	Val	Ser	Ile	Arg	Asp	Phe	Gly	Ser	Ala	Ala	Val	Ser	Leu	Gln		
72						125				130						135		
74	gtg	gg	gct	ccc	tac	tcg	aag	ccc	agc	atg	acc	ctg	gag	ccc	aac	aag	483	
75	Val	Ala	Ala	Pro	Tyr	Ser	Lys	Pro	Ser	Met	Thr	Leu	Glu	Pro	Asn	Lys		
76						140				145						150		
78	gac	ctg	cg	cca	ggg	gac	ac	gt	acc	atc	ac	tg	cc	agc	tac	cag	531	
79	Asp	Leu	Arg	Pro	Gly	Asp	Thr	Val	Thr	Ile	Thr	Cys	Ser	Ser	Tyr	Gln		
80						155				160						165		
82	ggc	tac	cct	gag	g	gt	ttc	tgg	cag	gat	ggg	cag	gg	gt	ccc		579	
83	Gly	Tyr	Pro	Glu	Ala	Glu	Val	Phe	Trp	Gln	Asp	Gly	Gln	Gly	Val	Pro		
84						170				175						180	185	
86	ctg	act	ggc	aa	gt	cc	ac	ac	tc	cg	at	g	cc	ag	gg	tt	627	
87	Leu	Thr	Gly	Asn	Val	Thr	Thr	Ser	Gln	Met	Ala	Asn	Glu	Gln	Gly	Leu		
88						190				195						200		
90	ttt	gat	gt	cac	agc	atc	ctg	cg	gt	gt	ctg	gg	gca	aa	tt	ggc	acc	675
91	Phe	Asp	Val	His	Ser	Ile	Leu	Arg	Val	Val	Leu	Gly	Ala	Asn	Gly	Thr		
92						205				210						215		
94	tac	agc	tgc	ctg	gt	cg	aa	ccc	gt	ctg	cag	gat	g	cc	cac	agc	723	
95	Tyr	Ser	Cys	Leu	Val	Arg	Asn	Pro	Val	Leu	Gln	Gln	Asp	Ala	His	Ser		
96						220				225						230		
98	tct	gtc	acc	atc	aca	ccc	cag	aga	agc	ccc	aca	gga	gg	gt	gg	gt	771	
99	Ser	Val	Thr	Ile	Thr	Pro	Gln	Arg	Ser	Pro	Thr	Gly	Ala	Val	Glu	Val		
100						235				240						245		
102	cag	gtc	cct	gag	g	ac	cg	gt	gt	gg	cc	acc	gat	gg	cc	acc	819	
103	Gln	Val	Pro	Glu	Asp	Pro	Val	Val	Ala	Leu	Val	Gly	Thr	Asp	Ala	Thr		
104						250				255						260	265	
106	ctg	cgc	tgc	tcc	tcc	ccc	gag	cct	gg	ttc	agc	ctg	gca	cag	ctc		867	
107	Leu	Arg	Cys	Ser	Phe	Ser	Pro	Glu	Pro	Gly	Phe	Ser	Leu	Ala	Gln	Leu		
108						270				275						280		
110	aac	ctc	atc	tgg	cag	ctg	aca	gac	acc	aaa	cag	ctg	cac	agt	ttc		915	
111	Asn	Leu	Ile	Trp	Gln	Leu	Thr	Asp	Thr	Lys	Gln	Leu	Val	His	Ser	Phe		
112						285				290						295		
114	acc	gaa	ggc	cg	gac	cag	gg	agc	g	cc	tat	gg	aa	cgc	ac	gg	963	
115	Thr	Glu	Gly	Arg	Asp	Gln	Gly	Ser	Ala	Tyr	Ala	Asn	Arg	Thr	Ala	Leu		
116						300				305						310		
118	tcc	ccg	gac	ctg	ctg	gca	caa	gg	aat	gca	tcc	ctg	agg	ctg	cag	cg	1011	
119	Phe	Pro	Asp	Leu	Leu	Ala	Gln	Gly	Asn	Ala	Ser	Leu	Arg	Leu	Gln	Arg		
120						315				320						325		
122	gt	gt	gt	gg	gac	gag	gg	agc	ttc	acc	tg	ttc	gt	agc	atc	gg	1059	
123	Val	Arg	Val	Ala	Asp	Glu	Gly	Ser	Phe	Thr	Cys	Phe	Val	Ser	Ile	Arg		

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/018,383

DATE: 06/04/2002
TIME: 14:56:06

Input Set : A:\X11600.ST25.txt
Output Set: N:\CRF3\06042002\J018383.raw

124	330	335	340	345	
126	gat ttc ggc agc gct gcc gtc agc ctg cag gtg gcc gct ccc tac tcg				1107
127	Asp Phe Gly Ser Ala Ala Val Ser Leu Gln Val Ala Ala Pro Tyr Ser				
128	350	355	360		
130	aag ccc agc atg acc ctg gag ccc aac aag gac ctg cgg cca ggg gac				1155
131	Lys Pro Ser Met Thr Leu Glu Pro Asn Lys Asp Leu Arg Pro Gly Asp				
132	365	370	375		
134	acg gtg acc atc acg tgc tcc agc tac cgg ggc tac cct gag gct gag				1203
135	Thr Val Thr Ile Thr Cys Ser Ser Tyr Arg Gly Tyr Pro Glu Ala Glu				
136	380	385	390		
138	gtg ttc tgg cag gat ggg cag ggt gtg ccc ctg act ggc aac gtg acc				1251
139	Val Phe Trp Gln Asp Gly Gln Gly Val Pro Leu Thr Gly Asn Val Thr				
140	395	400	405		
W--> 142	acg tcg cag atg gcc aac gag cag ggc ttg ttt nnn nnn nnn nnn nnn				1299
W--> 143	Thr Ser Gln Met Ala Asn Glu Gln Gly Leu Phe Xaa Xaa Xaa Xaa Xaa				
144	410	415	420	425	
W--> 146	nnn				1347
W--> 147	Xaa				
148	430	435	440		
W--> 150	nnn nnn nnn nnn nnn nnn gat ggc cac ggc tct gtc acc atc aca ggg				1395
W--> 151	Xaa Xaa Xaa Xaa Xaa Xaa Asp Ala His Gly Ser Val Thr Ile Thr Gly				
152	445	450	455		
154	cag cct atg aca ttc ccc cca gag gcc ctg tgg gtg acc gtg ggg ctg				1443
155	Gln Pro Met Thr Phe Pro Pro Glu Ala Leu Trp Val Thr Val Gly Leu				
156	460	465	470		
158	tct gtc tgt ctc att gca ctg ctg gtg gcc ctg gct ttc gtg tgc tgg				1491
159	Ser Val Cys Leu Ile Ala Leu Leu Val Ala Leu Ala Phe Val Cys Trp				
160	475	480	485		
162	aga aag atc aaa cag agc tgt gag gag aat gca gga gct gag gac				1539
163	Arg Lys Ile Lys Gln Ser Cys Glu Glu Glu Asn Ala Gly Ala Glu Asp				
164	490	495	500	505	
166	cag gat ggg gag gga gaa ggc tcc aag aca gcc ctg cag cct ctg aaa				1587
167	Gln Asp Gly Glu Gly Ser Lys Thr Ala Leu Gln Pro Leu Lys				
168	510	515	520		
170	cac tct gac agc aaa gaa gat gat gga caa gaa ata gcc tga				1629
171	His Ser Asp Ser Lys Glu Asp Asp Gly Gln Glu Ile Ala				
172	525	530			
174	ccatgaggac cagggagctg ctacccctcc ctacagctcc taccctctgg ctgc				1683
177	<210> SEQ ID NO: 2				
178	<211> LENGTH: 534				
179	<212> TYPE: PRT				
180	<213> ORGANISM: Homo sapiens				
182	<220> FEATURE:				
183	<221> NAME/KEY: misc_feature				
184	<222> LOCATION: (421)..(421)				
185	<223> OTHER INFORMATION: The 'Xaa' at location 421 stands for Lys, Asn, Arg, Ser, Ile				
186	, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,				
187	Tyr, Trp, Cys, or Phe.				
189	<220> FEATURE:				

Xaa can only represent an actual amino acid, not a stop codon

6/4/02

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/018,383

DATE: 06/04/2002
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Input Set : A:\X11600.ST25.txt
Output Set: N:\CRF3\06042002\J018383.raw

190 <221> NAME/KEY: misc_feature
191 <222> LOCATION: (422)..(422)
192 <223> OTHER INFORMATION: The 'Xaa' at location 422 stands for Lys, Asn, Arg, Ser,
Thr, Ile
193 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
194 Tyr, Trp, Cys, or Phe. same error
196 <220> FEATURE:
197 <221> NAME/KEY: misc_feature
198 <222> LOCATION: (423)..(423)
199 <223> OTHER INFORMATION: The 'Xaa' at location 423 stands for Lys, Asn, Arg, Ser,
Thr, Ile
200 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
201 Tyr, Trp, Cys, or Phe.
203 <220> FEATURE:
204 <221> NAME/KEY: misc_feature
205 <222> LOCATION: (424)..(424)
206 <223> OTHER INFORMATION: The 'Xaa' at location 424 stands for Lys, Asn, Arg, Ser,
Thr, Ile
207 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
208 Tyr, Trp, Cys, or Phe.
210 <220> FEATURE:
211 <221> NAME/KEY: misc_feature
212 <222> LOCATION: (425)..(425)
213 <223> OTHER INFORMATION: The 'Xaa' at location 425 stands for Lys, Asn, Arg, Ser,
Thr, Ile
214 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
215 Tyr, Trp, Cys, or Phe.
217 <220> FEATURE:
218 <221> NAME/KEY: misc_feature
219 <222> LOCATION: (426)..(426)
220 <223> OTHER INFORMATION: The 'Xaa' at location 426 stands for Lys, Asn, Arg, Ser,
Thr, Ile
221 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
222 Tyr, Trp, Cys, or Phe.
224 <220> FEATURE:
225 <221> NAME/KEY: misc_feature
226 <222> LOCATION: (427)..(427)
227 <223> OTHER INFORMATION: The 'Xaa' at location 427 stands for Lys, Asn, Arg, Ser,
Thr, Ile
228 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
229 Tyr, Trp, Cys, or Phe.
231 <220> FEATURE:
232 <221> NAME/KEY: misc_feature
233 <222> LOCATION: (428)..(428)
234 <223> OTHER INFORMATION: The 'Xaa' at location 428 stands for Lys, Asn, Arg, Ser,
Thr, Ile
235 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
236 Tyr, Trp, Cys, or Phe.
238 <220> FEATURE:
239 <221> NAME/KEY: misc_feature
240 <222> LOCATION: (429)..(429)
241 <223> OTHER INFORMATION: The 'Xaa' at location 429 stands for Lys, Asn, Arg, Ser,
Thr, Ile

242 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
243 Tyr, Trp, Cys, or Phe.
245 <220> FEATURE:
246 <221> NAME/KEY: misc_feature

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/018,383

DATE: 06/04/2002
TIME: 14:56:06

Input Set : A:\X11600.ST25.txt
Output Set: N:\Crf3\06042002\J018383.raw

247 <222> LOCATION: (430)..(430)
248 <223> OTHER INFORMATION: The 'Xaa' at location 430 stands for Lys, Asn, Arg, Ser,
Thr, Ile
249 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
250 Tyr, Trp, Cys, or Phe.
252 <220> FEATURE:
253 <221> NAME/KEY: misc_feature
254 <222> LOCATION: (431)..(431)
255 <223> OTHER INFORMATION: The 'Xaa' at location 431 stands for Lys, Asn, Arg, Ser,
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256 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
257 Tyr, Trp, Cys, or Phe.
259 <220> FEATURE:
260 <221> NAME/KEY: misc_feature
261 <222> LOCATION: (432)..(432)
262 <223> OTHER INFORMATION: The 'Xaa' at location 432 stands for Lys, Asn, Arg, Ser,
Thr, Ile
263 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
264 Tyr, Trp, Cys, or Phe.
266 <220> FEATURE:
267 <221> NAME/KEY: misc_feature
268 <222> LOCATION: (433)..(433)
269 <223> OTHER INFORMATION: The 'Xaa' at location 433 stands for Lys, Asn, Arg, Ser,
Thr, Ile
270 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
271 Tyr, Trp, Cys, or Phe.
273 <220> FEATURE:
274 <221> NAME/KEY: misc_feature
275 <222> LOCATION: (434)..(434)
276 <223> OTHER INFORMATION: The 'Xaa' at location 434 stands for Lys, Asn, Arg, Ser,
Thr, Ile
277 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
278 Tyr, Trp, Cys, or Phe.
280 <220> FEATURE:
281 <221> NAME/KEY: misc_feature
282 <222> LOCATION: (435)..(435)
283 <223> OTHER INFORMATION: The 'Xaa' at location 435 stands for Lys, Asn, Arg, Ser,
Thr, Ile
284 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
285 Tyr, Trp, Cys, or Phe.
287 <220> FEATURE:
288 <221> NAME/KEY: misc_feature
289 <222> LOCATION: (436)..(436)
290 <223> OTHER INFORMATION: The 'Xaa' at location 436 stands for Lys, Asn, Arg, Ser,
Thr, Ile
291 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,
292 Tyr, Trp, Cys, or Phe.
294 <220> FEATURE:
295 <221> NAME/KEY: misc_feature
296 <222> LOCATION: (437)..(437)
297 <223> OTHER INFORMATION: The 'Xaa' at location 437 stands for Lys, Asn, Arg, Ser,
Thr, Ile
298 , Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,

Please correct this
error throughout sequence 2

299 ·Tyr, Trp, Cys, or Phe.
301 <220> FEATURE:
302 <221> NAME/KEY: misc_feature
303 <222> LOCATION: (438)..(438)

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 06/04/2002
PATENT APPLICATION: US/10/018,383 TIME: 14:56:07

Input Set : A:\X11600.ST25.txt
Output Set: N:\CRF3\06042002\J018383.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 1285,1286,1287,1288,1289,1290,1291,1292,1293,1294,1295,1296
Seq#:1; N Pos. 1297,1298,1299,1300,1301,1302,1303,1304,1305,1306,1307,1308
Seq#:1; N Pos. 1309,1310,1311,1312,1313,1314,1315,1316,1317,1318,1319,1320
Seq#:1; N Pos. 1321,1322,1323,1324,1325,1326,1327,1328,1329,1330,1331,1332
Seq#:1; N Pos. 1333,1334,1335,1336,1337,1338,1339,1340,1341,1342,1343,1344
Seq#:1; N Pos. 1345,1346,1347,1348,1349,1350,1351,1352,1353,1354,1355,1356
Seq#:1; N Pos. 1357,1358,1359,1360,1361,1362,1363,1364,1365
Seq#:1; Xaa Pos. 421,422,423,424,425,426,427,428,429,430,431,432,433,434
Seq#:1; Xaa Pos. 435,436,437,438,439,440,441,442,443,444,445,446,447
Seq#:2; Xaa Pos. 421,422,423,424,425,426,427,428,429,430,431,432,433,434
Seq#:2; Xaa Pos. 435,436,437,438,439,440,441,442,443,444,445,446,447